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Improvements with the regulators of electrical current. The present invention relates to a < RTI ID= " 0001.0001 " > controlled-< /RTI> < RTI ID= " 0001.0002 " > leur< /RTI> of electrical current able to complete or open formed electric lies to a movement of a magnetized body, movement caused by attraction magné tick, the body magnetized being placed in a room of float which is laid out in one < RTI ID= " 0001.0003 " > récipient< /RTI> outside containing a nonconducting liquid and which is provided with a contact at an end. The invention has as an aim of < RTI ID= " 0001.0004 " > moyens< /RTI> intended to ensure a soft and significant movement of a body magnetized under the action of an attraction < RTI ID= " 0001.0005 " > magnetic, < /RTI> and this movement is used to complete or open.

The drawing attached represents a cross-section of a form of execution of the invention, and shows the operation of the apparatus under the action of a current below a certain limit, while the léés lines pontil show the operation of the apparatus when the current exceeds the < RTI ID= " 0001.0006 " > limite.< /RTI>

In the form of execution represented, a screen 2 is fixed on the interior side and at the bottom of an external container < RTI ID= " 0001.0007 " > i< /RTI> in the nonconducting field, such as glass, < RTI ID= " 0001.0008 " > insensilife< /RTI> with the action of the liquid contained in the réci pient, and this screen is laid out in order to form two rooms of contact 3 and < RTI ID= " 0001.0009 " > 3 ' < /RTI> < RTI ID= " 0001.0010 " > with-< /RTI> < RTI ID= " 0001.0011 " > quelles< /RTI> extré the mites of drivers 4 and < are respectively connected; RTI ID= " 0001.0012 " > li'; < /RTI> the aforementioned cham- cars of contact 3 and 3 ' are filled with mercury which is separated and isolated by screen 2 like represented. The opening of the réci pient external is hermetically closed by a stopper or closing into 5. Li quide 7 contents in the external container should not attack metal used and does not have to be conducting, and the hairs < RTI ID= " 0001.0013 " > spécifique< /RTI> liquid must differ from that of mercury, this liquid being of < RTI ID= " 0001.0014 " > préférence< /RTI> an oil semi nérale.

< RTI ID= " 0001.0015 " > i< /RTI> O indicates a driver whose end in the shape of fork like is represented with the drawing, and who is used to establish the electric communica tion between the two rooms of contact. The driver < RTI ID= " 0001.0016 " > i< /RTI> O is < RTI ID= " 0001.0017 " > supendu< /RTI> under a magnetized body, for example a wire, or pieces of iron G, < RTI ID= " 0001.0018 " > disposés< /RTI> clans the cylindrical room of float < RTI ID= " 0001.0019 " > B, < /RTI> room which is out of glass or another < RTI ID= " 0001.0020 " > matière< /RTI> which unattackable conch with the liquid contained in the container.

< RTI ID= " 0001.0021 " > i< /RTI> < RTI ID= " 0001.0022 " > i< /RTI> and < RTI ID= " 0001.0023 " > i< /RTI> < RTI ID= " 0001.0024 " > i< /RTI> 1 respectively indicates a principal reel and an auxiliary reel, which are rolled up on the external container. The end of driver 4 is in commu electric nication with < RTI ID= " 0001.0025 " > the extrémité< /RTI> limit principal reel and the commencement.< B> (le< /B> the < RTI ID= " 0001.0026 " > bobin-< /RTI> < RTI ID= " 0001.0027 " > auxiliary, < /RTI> tandis due the end ex térieure of the < RTI ID= " 0001.0028 " > conducteur< /RTI> < B> /il< /B> is in communica tion electric with the borne< end; B> (le< /B> wind auxiliary and with a circuit. of load, the origin of principal rolling up being say posed to be connected to the circuit of Ali mentation, and the circuit of auxiliary rolling up comprising a requested resistance appro < RTI ID= " 0002.0001 " > i< /RTI> 2.

According to the provision described above, < RTI ID= " 0002.0002 " > chambre< /RTI> of < RTI ID= " 0002.0003 " > flotteur< /RTI> normally occupy the lower position, < RTI ID= " 0002.0004 " > lorsque< /RTI> the contact can be in electrical contact with the room (the contact. But when the intensity of current exceeds the limit, the room of < RTI ID= " 0002.0005 " > flotteur< /RTI> is raised by attraction < RTI ID= " 0002.0006 " > magnetic, < /RTI> so that the contact separates from the < RTI ID= " 0002.0007 " > extrémités< /RTI> of the two drivers and their circuit opens, and that the current in the circuit. never die < can; B> passer< /B> limit: in the case which precedes, a power of this kind will be on from the auxiliary reel to the external circuit through D sistance inserted in this circuit.

When the room of < RTI ID= " 0002.0008 " > flotteur< /RTI> is attracted by (magnet, in consequence of the excitation due so that a decreased power is on by the principal reel and F winds auxiliary, laid out in series, the room of < RTI ID= " 0002.0009 " > flotteur< /RTI> < RTI ID= " 0002.0010 " > garde< /RTI> < RTI ID= " 0002.0011 " > même< /RTI> position, i.e. occupies the higher position instead of the lower position, although the cause of a surplus power was removed. When the < RTI ID= " 0002.0012 " > chambre< /RTI> of < RTI ID= " 0002.0013 " > flood-< /RTI> < RTI ID= " 0002.0014 " > teur< /RTI> re-occupy its primitive lower position by opening the circuit, it allows the passage of a current not exceeding the limit; in < RTI ID= " 0002.0015 " > of autres< /RTI> terms, when the current exceeds the limit, the apparatus operates in manner such as the current in the circuit is decreased by an increased resistance, instead of opening the circuit, so that the power in the circuit die will never be on the limit.

_ Operation (the this device can be supervised outside of the apparatus by means of a lamp with < RTI ID= " 0002.0016 " > incandescence, < /RTI> who can be inserted in the circuit instead of D sistance < RTI ID= " 0002.0017 " > I?. < /RTI> A substance, for example of cotton < RTI ID= " 0002.0018 " > i< /RTI> < RTI ID= " 0002.0019 " > ! i< /RTI> or a similar substance, can be envisaged at the top of the iron part; ce coton est hermétiquement < RTI ID= " 0002.0020 " > enfermé< /RTI> in the cylindrical part of the room of float, and is intended to prevent < RTI ID= " 0002.0021 " > the endommagement< /RTI> in this point in consequence of a movement penny dain of the aforesaid the iron part, and also to reduce the shock produced by the magnetic pull. If it is wished, one or more bodies (it adjustment, not represented, < RTI ID= " 0002.0022 " > peuvent< /RTI> < RTI ID= " 0002.0023 " > être< /RTI> envisaged on the collar (read device of contact to regulate the unit weight of the room of < RTI ID= " 0002.0024 " > flo: teur< /RTI> by regulating its

weight, and also for < RTI ID= " 0002.0025 " > plagier< /RTI> the center of < RTI ID= " 0002.0026 " > gravité< /RTI> room of float below the room center of pressure this, in order to ensure a stationary position to him.

The principal reel in < RTI ID= " 0002.0027 " > gros< /RTI> wire COM carries only < RTI ID= " 0002.0028 " > quelques< /RTI> whorls, slum that the bo bine < RTI ID= " 0002.0029 " > auxiliaire</RTI> in < RTI ID= " 0002.0030 " > fil< /RTI> end comprises a < RTI ID= " 0002.0031 " > grand< /RTI> whorl numbers; the auxiliary reel is rolled up on the principal reel: or, according to a < RTI ID= " 0002.0032 " > alternative, < /RTI> the auxiliary reel < RTI ID= " 0002.0033 " > petit< /RTI> to be rolled up with the higher part < RTI ID= " 0002.0034 " > de< /RTI> the principal bo bine.

This apparatus acts of < RTI ID= " 0002.0035 " > manière< /RTI> < RTI ID= " 0002.0036 " > alternative, < /RTI> what can be applied to other cases. According to an alternative, the apparatus can < RTI ID= " 0002.0037 " > t#tre</RTI> < RTI ID= " 0002.0038 " > transformé< /RTI> to be used as time-switch; in this case, dimensions of the < RTI ID= " 0002.0039 " > chambre< /RTI> of < RTI ID= " 0002.0040 " > flotteur< /RTI> and the proportions of space between the réci pient < RTI ID= " 0002.0041 " > extérieur< /RTI> and the room of < RTI ID= " 0002.0042 " > float, < /RTI> < RTI ID= " 0002.0043 " > known-< /RTI> < RTI ID= " 0002.0044 " > hissent</RTI> changes and the depth (it it room of contact is < RTI ID= " 0002.0045 " > relativement< /RTI> aug mentée, liquid employed before a visco site < RTI ID= " 0002.0046 " > convenable.< /RTI>

The present invention not only allows lies to obtain the movement softest < RTI ID= " 0002.0047 " > et< /RTI> more sensible< B> (lu< /B> magnetized body, but also to avoid the danger said to the production of an electric spark with < RTI ID= " 0002.0048 " > (ouverture< /RTI> < RTI ID= " 0002.0049 " > dit< /RTI> circuit, and to maintain the contact < perfectly; RTI ID= " 0002.0050 " > titi< /RTI> mercury with the driver; moreover the idiot tact is not stopped, < RTI ID= " 0002.0051 " > même< /RTI> under in fluence of external shocks.

The invention includes/understands also the employment of < RTI ID= " 0002.0052 " > glycérine< /RTI> < RTI ID= " 0002.0053 " > (i< /RTI> on d'une autre matière <RTI ID="0002.0054"> analogue, < /RTI> who is incorporated in oil in the external container 1, in order to ensure a protection against the action of < RTI ID= " 0002.0055 " > (étincelle< /RTI> electric which without that would carbonize oil, and < could thus; RTI ID= " 0002.0056 " > endon@mager< /RTI> the contact and to reduce the duration of the regulator. By associating (oil and the < RTI ID= " 0002.0057 " > glycerin, < /RTI> this disadvantage can be sup preceded fact. that the lighter oil which is superimposed on the < RTI ID= " 0002.0058 " > glycérine< /RTI> heavier. in spoke its of the difference in weight specific. not only prevents the spark from acting direct lies on < RTI ID= " 0002.0059 " > oil, < /RTI> but < RTI ID= " 0002.0060 " > empêche< /RTI> in < RTI ID= " 0002.0061 " > mmP</RTI> time < RTI ID= " 0002.0062 " > the évaporation< /RTI> < RTI ID= " 0002.0063 " > glycerin, < /RTI> while absorbing. < RTI ID= " 0002.0064 " > the humiditt#< /RTI> of (air. II can be good of < RTI ID= " 0003.0001 " > prévoir< /RTI> a device to allow the < RTI ID= " 0003.0002 " > flotteur< /RTI> to be driven < RTI ID= " 0003.0003 " > cen-< /RTI> < RTI ID= " 0003.0004 " > tralement< /RTI> inside the external wall < RTI ID= " 0003.0005 " > i< /RTI> ; one can by < RTI ID= " 0003.0006 " > exemple< /RTI> < RTI ID= " 0003.0007 " > prévoir< /RTI> < RTI ID= " 0003.0008 " > plusieurs< /RTI> legs < RTI ID= " 0003.0009 " > i< /RTI> < B> d< /B> , all < RTI ID= " 0003.0010 " > ail< /RTI> less three., on the wall < RTI ID= " 0003.0011 " > dit< /RTI> flood tor.

Improvements with the regulato
The drawing attached represer
In the form of execution repres
< RTI ID= " 0001.0015 " > i< /RTI>